



**US Army Corps  
of Engineers**  
Portland District



# Mechanical Design

The Portland District Mechanical Design Section consists of mechanical engineers and trainees working together to provide solutions to engineering challenges for the District and the Region.

## What We Do

Our specific functions vary widely, but include the following responsibilities:

- Perform design investigations and analyses.
- Prepare contract documents.
- Manage complex multi-disciplined engineering products.
- Prepare special studies, reports, manuals, design memorandums and estimates.
- Manage A-E contracts and consultants.
- Technically lead and manage product teams in support of Life Cycle Project Management.
- Prepare inspection and evaluation of the mechanical aspects of dam safety of civil works structures.

## Experience and Expertise

The Section offers a broad range of civil works engineering and design experience, coupled with a long successful history of working with other Corps resources (Districts, Engineer Research and Development Center and the Hydroelectric Design Center) and the architectural engineering community. The District currently has several multidisciplinary open-ended contracts for engineering services.

### How to reach us:

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#### Write:

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AE Contracting

Navigation Locks

Dams, Intake Towers,  
Spillways & Outlet Works

Fish Passage, Collection &  
Monitoring Facilities

Recreation Facility Design

Coastal and River  
Structures Design

Visitor Centers

Sediment Retention  
Structures

Gantry and Bridge Cranes

Gates and Operator

HVAC

Plumbing/Piping

Gantry and Bridge  
Cranes

Gates and Operators

CADD

Corrosion Control

Emergency Response

Miter, Lift, Slide &  
Tainter Gates

Pipe and Penstock  
Valves

Mechanical Forensics

Self Lubricated Bearing  
Materials

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